

TRIGONOMETRIE

sinus

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma} = 2r$$

↑
rayon du cercle circonscrit

cosinus

$$a^2 = b^2 + c^2 - 2bc \cos \alpha$$

$$b^2 = a^2 + c^2 - 2ac \cos \beta$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma$$

aire

$$A = \frac{1}{2} bc \sin \alpha$$

$$= \frac{1}{2} ab \sin \gamma = \frac{1}{2} ac \sin \beta$$

